

For some years oil companies which were familiar with the area considered it to have great potential as an oil province, but only recently have exploration methods, such as refinements, in seismic equipment and interpretation, developed to the point where prospecting in an area of this type is feasible.

In planning its exploration program, Signal made a thorough search of all the literature concerning the area and compiled all data into a series of maps and cross sections which represented Signal's total knowledge of the area. All available information concerning drilled wells in the vicinity was purchased and used in a subsurface geological map study of the region.

An aerial photographic geological map was compiled of the area, and negotiations are in progress to obtain gravity studies made in the vicinity.

After compiling all existing data, Signal did its surface mapping by the use of surface vehicles, helicopter, and fixed-wing aircraft. Field work was terminated by the combination of snowfall and the start of hunting seasons.

This field work confirmed our belief that productive sediments exist below the volcanic cover, and that intrusive rocks have not disturbed their potential.

At this point Signal rates this an area containing excellent oil and gas prospects. We have the combination of the occurrence of sedimentary formations which produce oil in adjacent areas and the presence of very probable anticlinal structural features to trap oil and gas.

Signal is now at the point where in order to justify additional money being spent on this exploratory prospect, it must be assured of obtaining oil and gas leases. This is an area that just has not been explored for oil and gas, one reason being that, to our knowledge, the Bureau of Land Management has never issued any oil and gas leases in the primitive area.

When weather conditions permit and if leases are obtained, Signal plans the following exploratory program:

1. Additional surface mapping.
2. Gravity survey.
3. Seismic program.
4. Drilling when prospect is further delineated.

The U.S. Geological Survey in USGS Bulletin 1230-E "Mineral Resources of the Stratified Primitive Area, Wyoming" made a study of the mineral resources of the Stratified Primitive Area to aid Congress in evaluating this area as a wilderness area prospect.

As to oil and gas potential, the report states that conditions are favorable for accumulations of oil and gas, but that intrusive rocks are likely to have rendered any possible oil and gas reservoirs unproductive.

In our opinion this is just not the case. One of the primary reasons for last fall's field work was to obtain assurance that intrusive activity in the rocks had not destroyed hydrocarbon accumulations.

Our field geologists found evidence of intrusive rocks and were impressed with the accuracy of the mapping presented in USGS Bulletin 1230-E.